CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/418/Cube/2017-18

09.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkasandra Govt., School surrounding areas in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/158/2017-18 Dated: 22.07.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.10.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.09.2017	09.10.2017	8.207	492.3	21.88
2	11.09.2017	09.10.2017	8.305	502.6	22.34
3	11.09.2017	09.10.2017	8.412	512.8	22.79

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K.
Technical Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/418/Cube/2017-18 16.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkasandra Govt., School surrounding areas in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/158/2017-18 Dated: 22.07.2017
* Sample ID	:	Culvert Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.10.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.09.2017	16.10.2017	8.227	493.5	21.93
2	18.09.2017	16.10.2017	8.355	502.1	22.32
3	18.09.2017	16.10.2017	8.408	520.9	23.15

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/418/Cube/2017-18

20.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkasandra Govt., School surrounding areas in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/158/2017-18 Dated: 22.07.2017
* Sample ID	:	Culvert Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.10.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.09.2017	20.10.2017	8.110	474.5	21.09
2	22.09.2017	20.10.2017	8.260	510.3	22.68
3	22.09.2017	20.10.2017	8.365	522.6	23.23

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/418/Cube/2017-18

20.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkasandra Govt., School surrounding areas in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/158/2017-18 Dated: 22.07.2017
* Sample ID	:	Culvert Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.10.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.09.2017	20.10.2017	8.095	485.5	21.58
2	22.09.2017	20.10.2017	8.168	515.3	22.90
3	22.09.2017	20.10.2017	8.293	526.9	23.42

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/418/Cube/2017-18

25.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkasandra Govt., School surrounding areas in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/158/2017-18 Dated: 22.07.2017
* Sample ID	:	Culvert Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.10.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.09.2017	25.10.2017	8.254	512.2	22.76
2	27.09.2017	25.10.2017	8.385	523.2	23.25
3	27.09.2017	25.10.2017	8.428	535.2	23.79

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/418/Precast slab/2017-18 28.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of work**	:	Construction of RCC drain at Chikkasandra Govt., School surrounding areas in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/158/2017-18 Dated: 22.07.2017
*** Sample ID**	:	Precast slab
*** Grade of Concrete**	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	23.09.2017
Date of Testing	:	28.09.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.405	2515.42	1.64	0.961	30.60	15.58	16.83	17.51	21.89
2	50.00	83.00	0.416	2552.62	1.66	0.963	32.60	16.60	17.93	17.27	21.59
3	50.00	84.00	0.423	2564.67	1.68	0.965	33.85	17.24	18.62	17.98	22.47

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